

Data Path : Z:\VOASRV\HPCHEM1\MSVOA D\DATA\VD041619\  
 Data File : VD061822.D  
 Acq On : 16 Apr 2019 20:46  
 Operator : VA/AP  
 Sample : K2199-11  
 Misc : 6.42g/5ml/MSVOA D/SOIL  
 ALS Vial : 22 Sample Multiplier: 1

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-02-041219-B

Quant Time: Apr 17 01:49:12 2019  
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA\_D\METHOD\82D041519S.M  
 Quant Title : SW846 8260  
 QLast Update : Tue Apr 16 08:53:01 2019  
 Response via : Initial Calibration

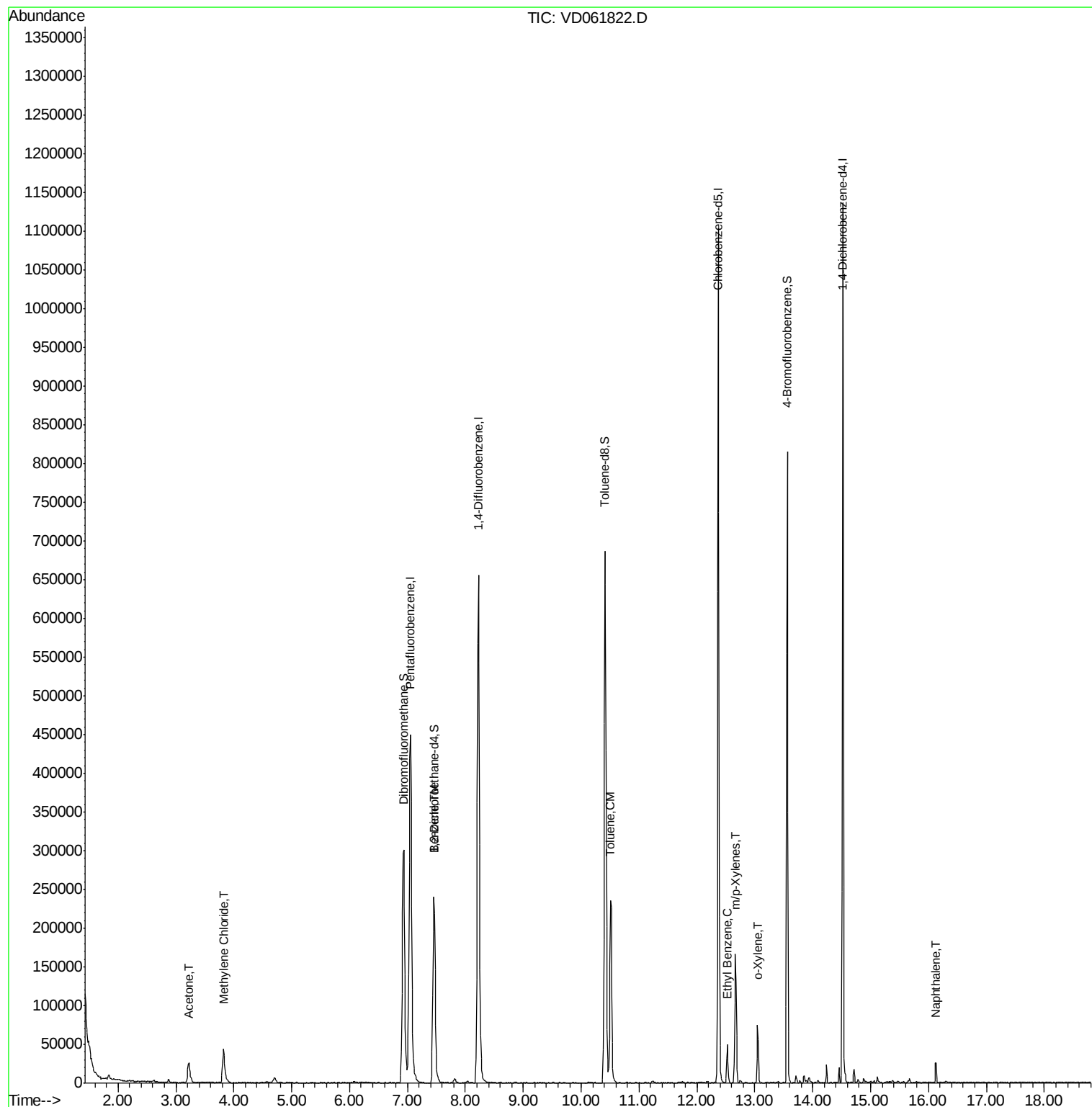
| Internal Standards          | R.T.  | QIon | Response | Conc   | Units   | Dev(Min) |
|-----------------------------|-------|------|----------|--------|---------|----------|
| 1) Pentafluorobenzene       | 7.05  | 168  | 478307   | 50.00  | ug/l    | -0.04    |
| 34) 1,4-Difluorobenzene     | 8.22  | 114  | 826421   | 50.00  | ug/l    | -0.04    |
| 63) Chlorobenzene-d5        | 12.37 | 117  | 650514   | 50.00  | ug/l    | -0.03    |
| 72) 1,4-Dichlorobenzene-d4  | 14.52 | 152  | 297944   | 50.00  | ug/l    | -0.01    |
| System Monitoring Compounds |       |      |          |        |         |          |
| 33) 1,2-Dichloroethane-d4   | 7.46  | 65   | 201905   | 50.37  | ug/l    | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 100.74% |          |
| 35) Dibromofluoromethane    | 6.93  | 113  | 299548   | 47.98  | ug/l    | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 95.96%  |          |
| 50) Toluene-d8              | 10.41 | 98   | 640805   | 43.32  | ug/l    | -0.04    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 86.64%  |          |
| 62) 4-Bromofluorobenzene    | 13.56 | 95   | 247138   | 41.22  | ug/l    | -0.02    |
| Spiked Amount 50.000        |       |      | Recovery | =      | 82.44%  |          |
| Target Compounds            |       |      |          |        |         |          |
|                             |       |      |          |        | Qvalue  |          |
| 16) Acetone                 | 3.22  | 43   | 55101    | 55.771 | ug/l    | 98       |
| 20) Methylene Chloride      | 3.82  | 84   | 35232    | 2.848  | ug/l    | 91       |
| 40) Benzene                 | 7.46  | 78   | 57485    | 3.546  | ug/l    | 91       |
| 52) Toluene                 | 10.51 | 92   | 134656   | 12.961 | ug/l    | 93       |
| 67) Ethyl Benzene           | 12.53 | 91   | 35663    | 1.838  | ug/l    | 99       |
| 68) m/p-Xylenes             | 12.66 | 106  | 55140    | 7.566  | ug/l    | 99       |
| 69) o-Xylene                | 13.05 | 106  | 19136    | 2.794  | ug/l    | 84       |
| 95) Naphthalene             | 16.13 | 128  | 20201    | 2.990  | ug/l    | 97       |

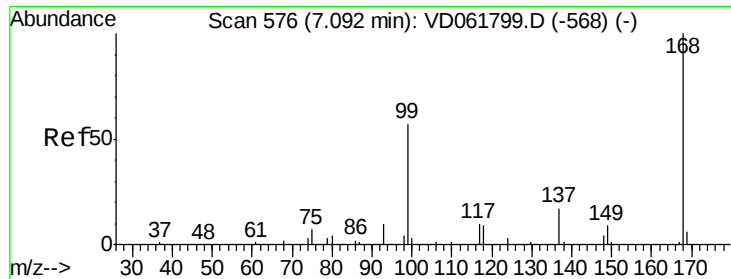
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260  
QLast Update : Tue Apr 16 08:53:01 2019  
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.05 min Scan# 572

Delta R.T. -0.04 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA\_D

ClientSampleId :

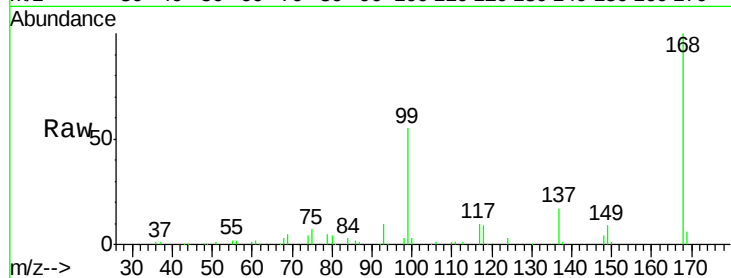
OR-02-041219-B

Tot Ion:168 Resp: 478307

Ion Ratio Lower Upper

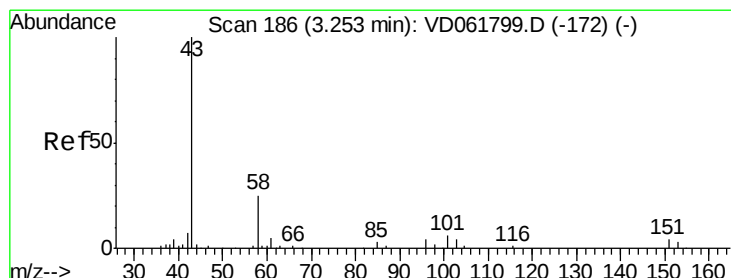
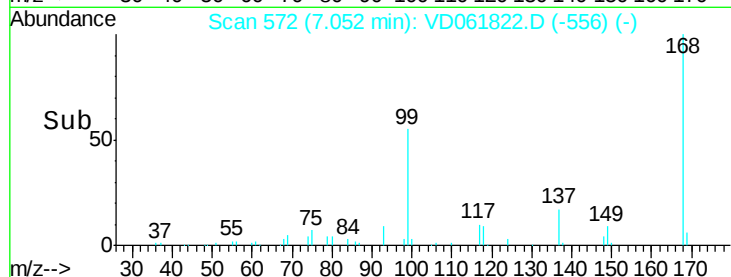
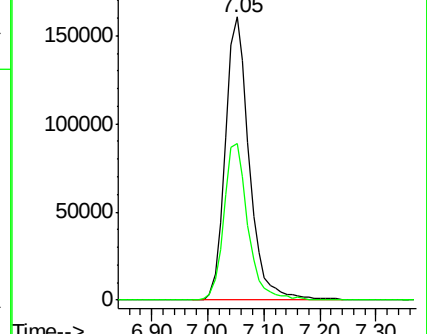
168 100

99 55.4 46.5 69.7



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.95 (98.65 to 99.65): VDC



#16

Acetone

Concen: 55.771 ug/l

RT: 3.22 min Scan# 183

Delta R.T. -0.03 min

Lab File: VD061822.D

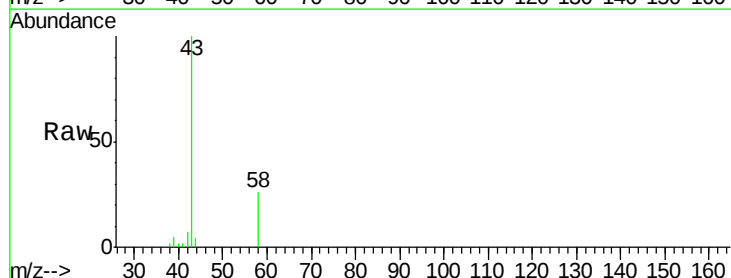
Acq: 16 Apr 2019 20:46

Tgt Ion: 43 Resp: 55101

Ion Ratio Lower Upper

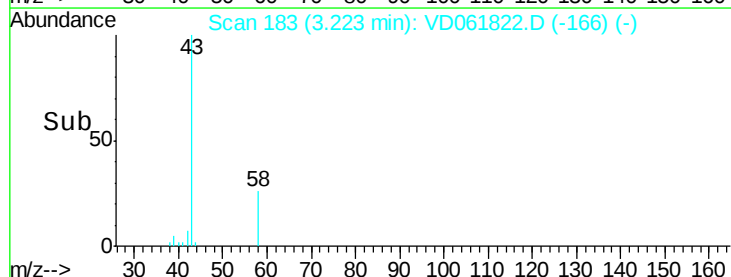
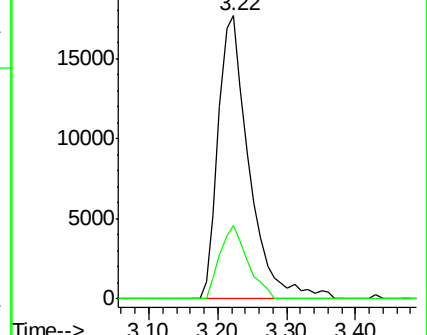
43 100

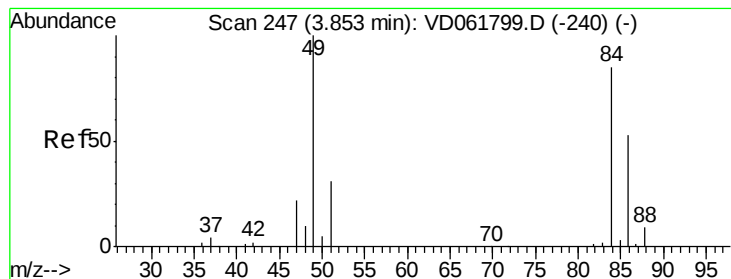
58 25.9 19.9 29.9



Abundance Ion 42.95 (42.65 to 43.65): VDC

Ion 57.95 (57.65 to 58.65): VDC





#20

Methylene Chloride

Concen: 2.848 ug/l

RT: 3.82 min Scan# 244

Delta R.T. -0.03 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA\_D

ClientSampleId :

OR-02-041219-B

Tot Ion: 84 Resp: 35232

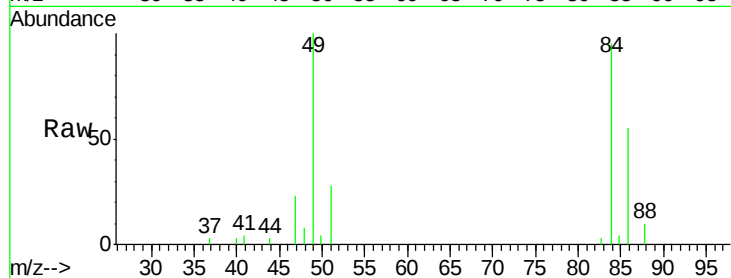
Ion Ratio Lower Upper

84 100

49 105.8 94.0 141.0

51 29.3 29.0 43.4

86 58.5 49.8 74.6

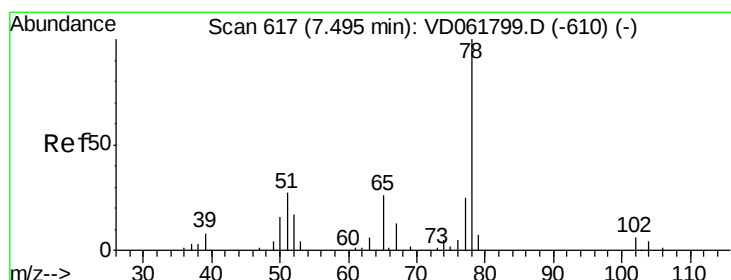
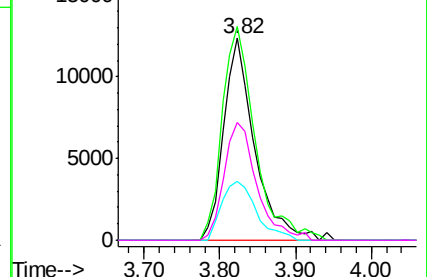
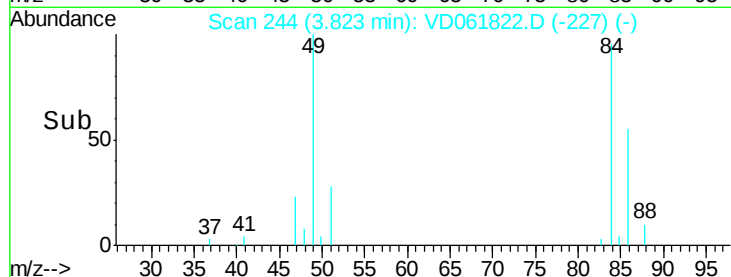


Abundance Ion 83.95 (83.65 to 84.65): VDC

Ion 48.90 (48.60 to 49.60): VDC

Ion 50.90 (50.60 to 51.60): VDC

Ion 85.90 (85.60 to 86.60): VDC



#33

1,2-Dichloroethane-d4

Concen: N.D. ug/l

RT: 7.46 min Scan# 613

Delta R.T. -0.04 min

Lab File: VD061822.D

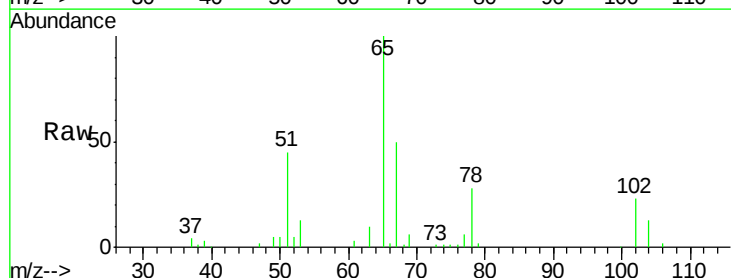
Acq: 16 Apr 2019 20:46

Tgt Ion: 65 Resp: 201905

Ion Ratio Lower Upper

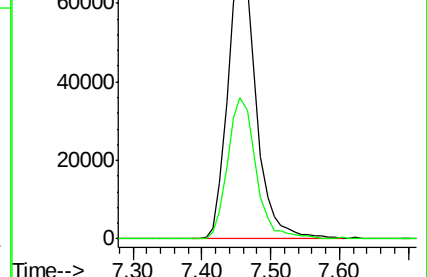
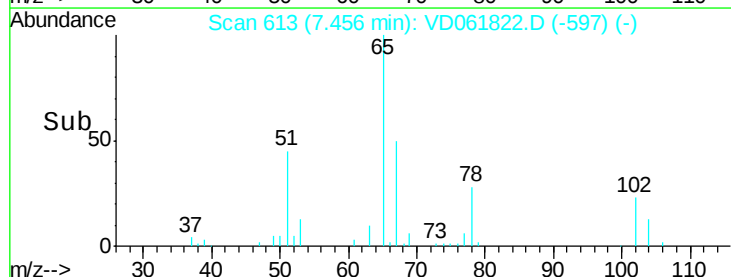
65 100

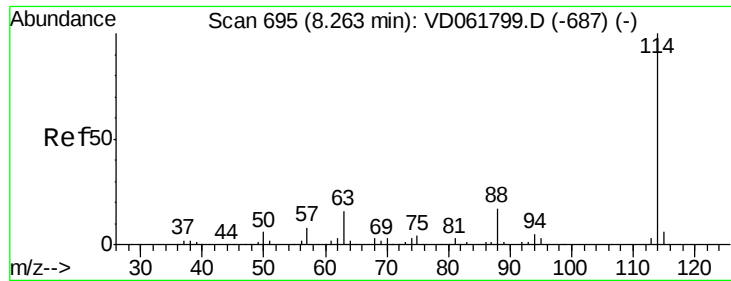
67 50.1 0.0 98.0



Abundance Ion 64.95 (64.65 to 65.65): VDC

Ion 66.90 (66.60 to 67.60): VDC

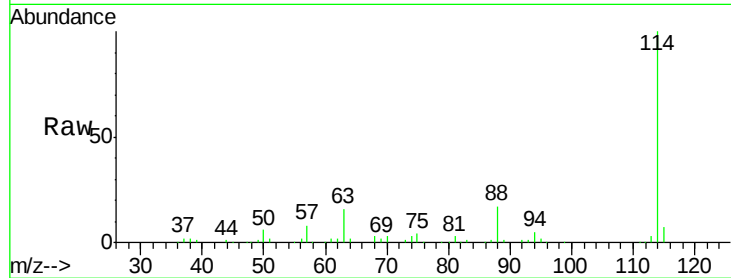




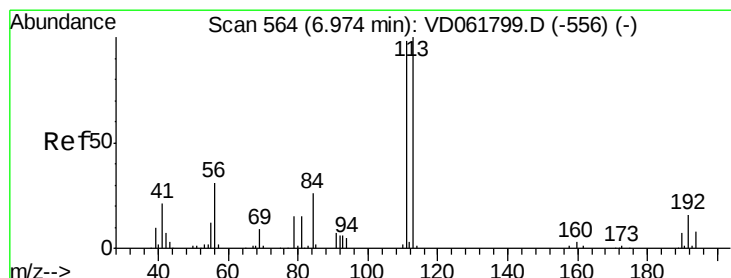
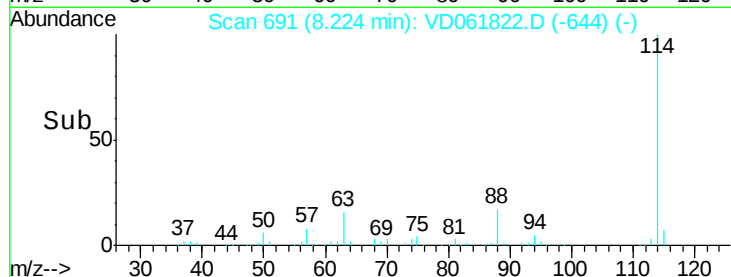
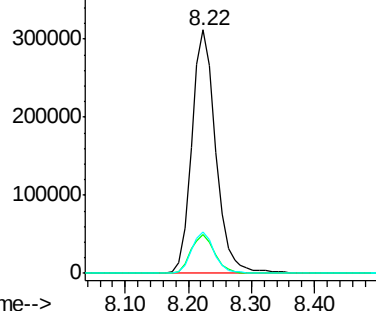
#34  
1,4-Difluorobenzene  
Concen: 50.000 ug/l  
RT: 8.22 min Scan# 691  
Delta R.T. -0.04 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-041219-B

Tot Ion:114 Resp: 826421  
Ion Ratio Lower Upper  
114 100  
63 16.2 0.0 32.4  
88 16.9 0.0 33.6

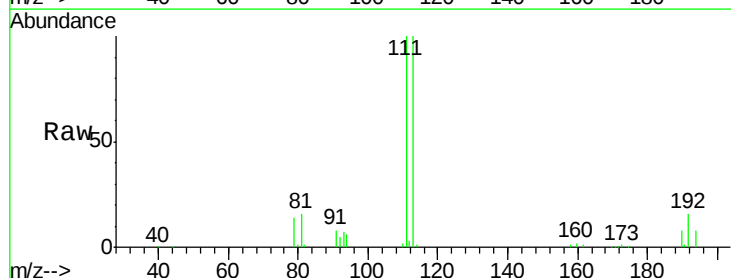


Abundance Ion 114.00 (113.70 to 114.70): V  
Ion 62.95 (62.65 to 63.65): V  
Ion 87.90 (87.60 to 88.60): V

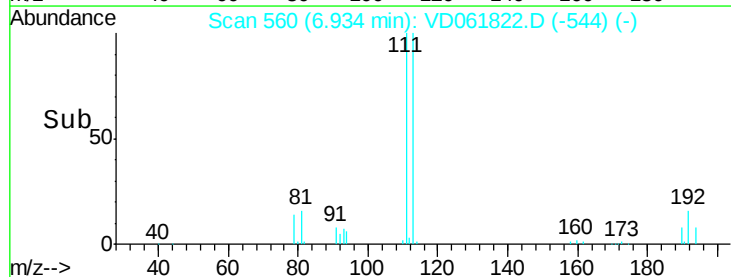
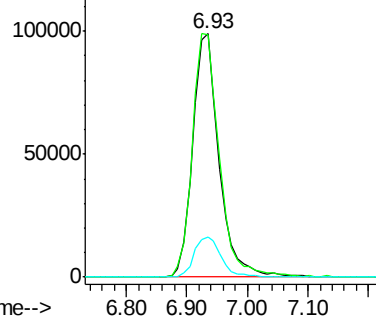


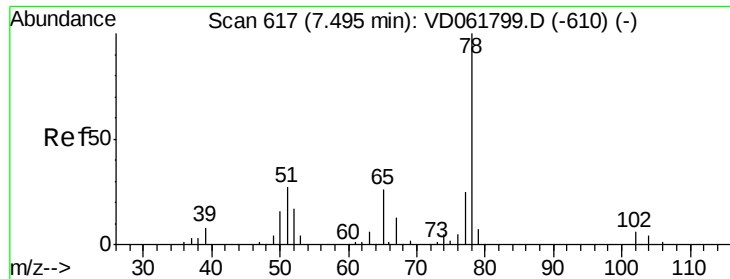
#35  
Dibromofluoromethane  
Concen: 50.000 ug/l  
RT: 6.93 min Scan# 560  
Delta R.T. -0.04 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Tgt Ion:113 Resp: 299548  
Ion Ratio Lower Upper  
113 100  
111 100.0 78.5 117.7  
192 16.3 13.0 19.4



Abundance Ion 112.90 (112.60 to 113.60): V  
Ion 110.90 (110.60 to 111.60): V  
Ion 191.80 (191.50 to 192.50): V

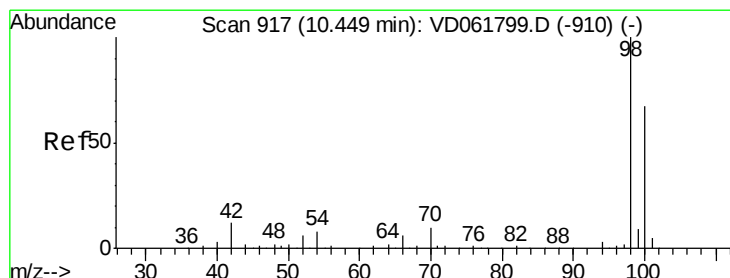
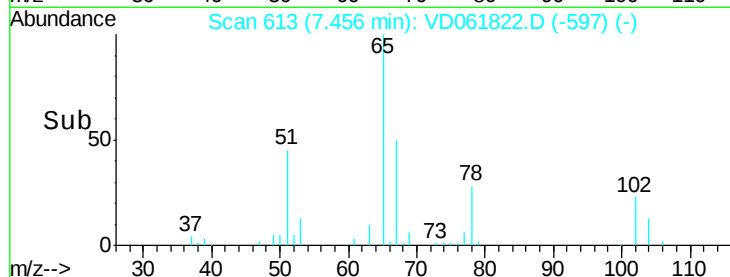
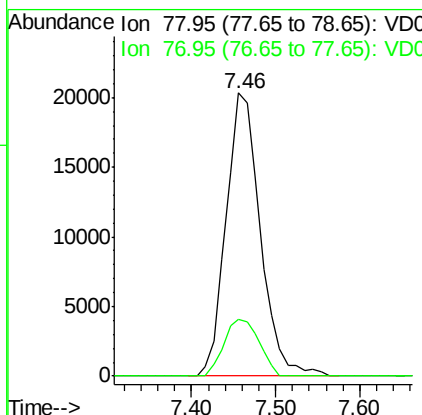
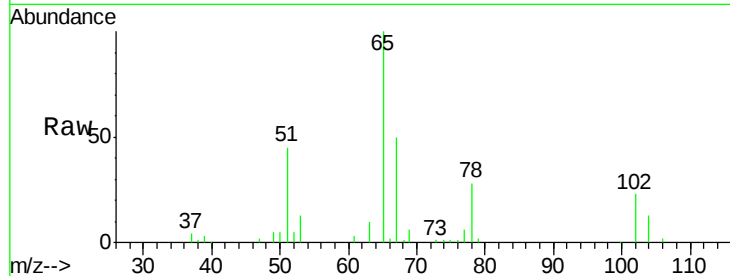




#40  
Benzene  
Concen: 3.546 ug/l  
RT: 7.46 min Scan# 613  
Delta R.T. -0.04 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

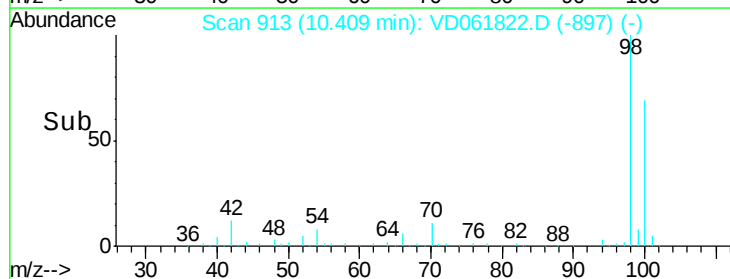
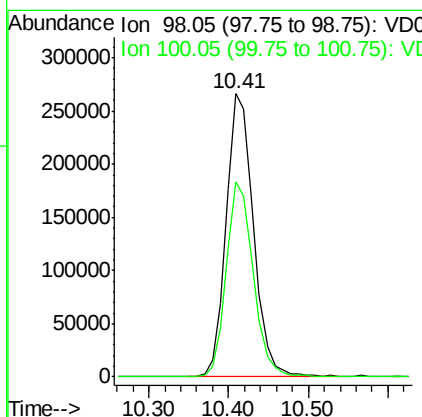
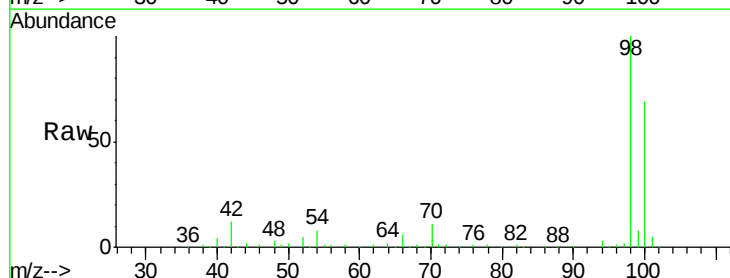
Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-041219-B

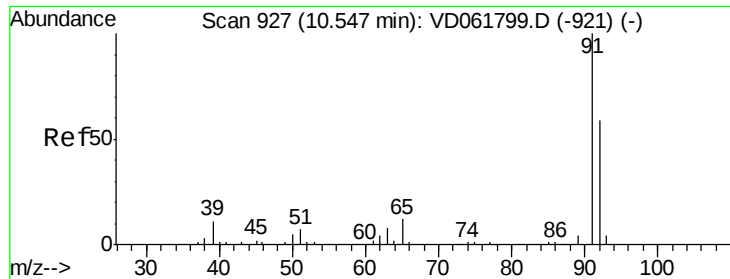
Tot Ion: 78 Resp: 57485  
Ion Ratio Lower Upper  
78 100  
77 20.0 19.7 29.5



#50  
Toluene-d8  
Concen: N.D. ug/l  
RT: 10.41 min Scan# 913  
Delta R.T. -0.04 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Tgt Ion: 98 Resp: 640805  
Ion Ratio Lower Upper  
98 100  
100 69.0 53.8 80.8





#52

Toluene

Concen: 12.961 ug/l

RT: 10.51 min Scan# 923

Delta R.T. -0.04 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

Instrument :

MSVOA\_D

ClientSampleId :

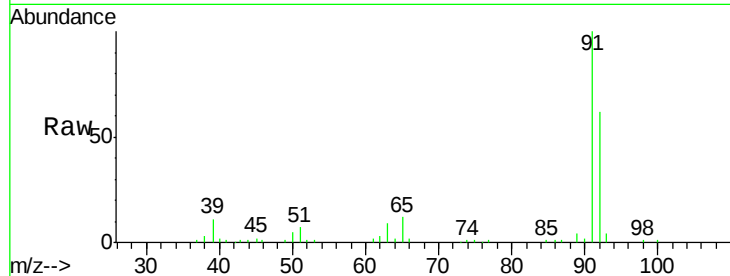
OR-02-041219-B

Tot Ion: 92 Resp: 134656

Ion Ratio Lower Upper

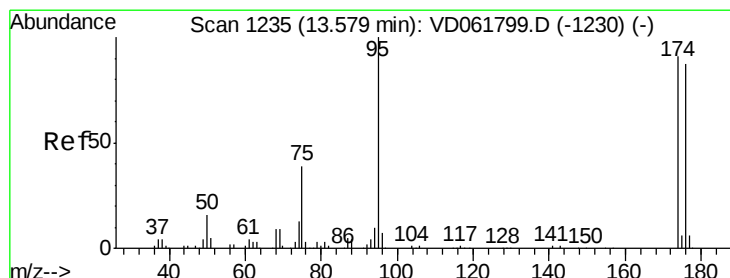
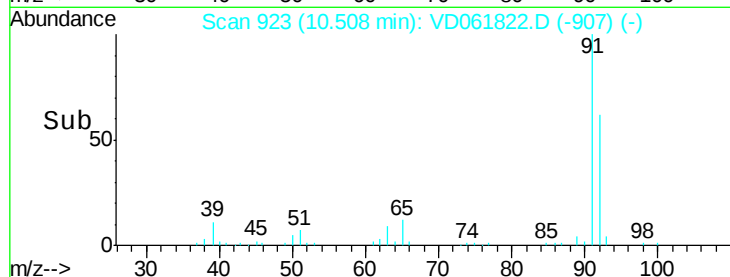
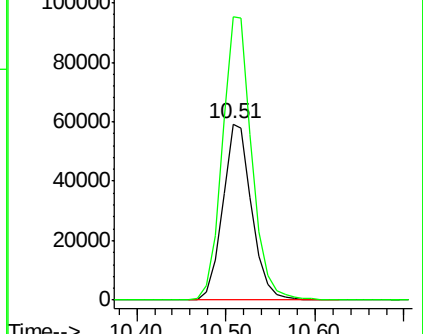
92 100

91 160.7 136.6 204.8



Abundance Ion 92.00 (91.70 to 92.70): VDC

Ion 91.00 (90.70 to 91.70): VDC



#62

4-Bromofluorobenzene

Concen: N.D. ug/l

RT: 13.56 min Scan# 1233

Delta R.T. -0.02 min

Lab File: VD061822.D

Acq: 16 Apr 2019 20:46

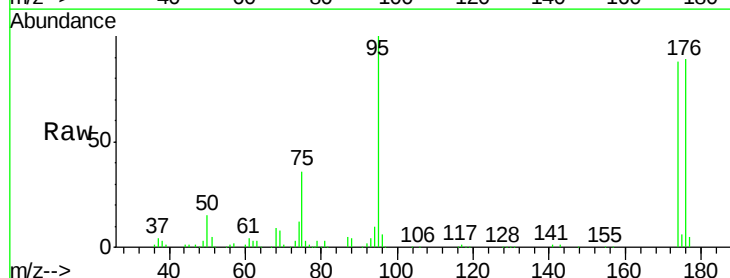
Tgt Ion: 95 Resp: 247138

Ion Ratio Lower Upper

95 100

174 87.6 0.0 181.8

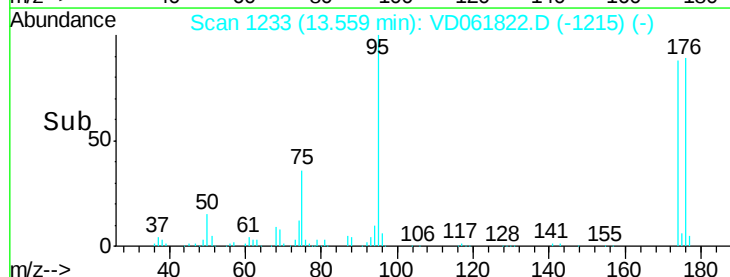
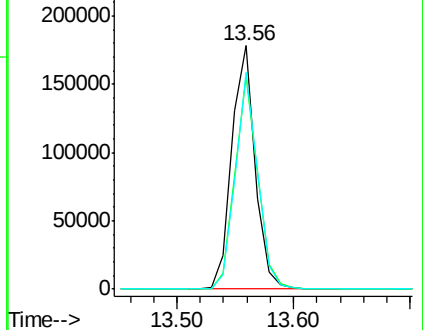
176 89.0 0.0 174.4

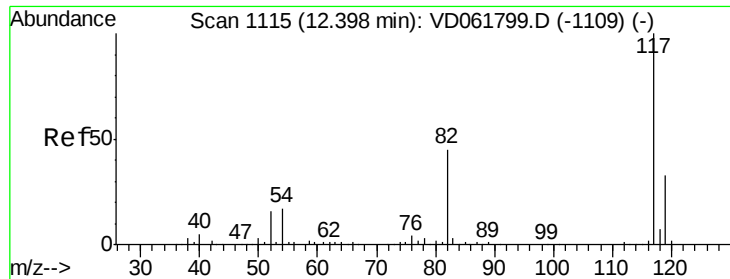


Abundance Ion 95.00 (94.70 to 95.70): VDC

Ion 173.90 (173.60 to 174.60): V

Ion 175.90 (175.60 to 176.60): V

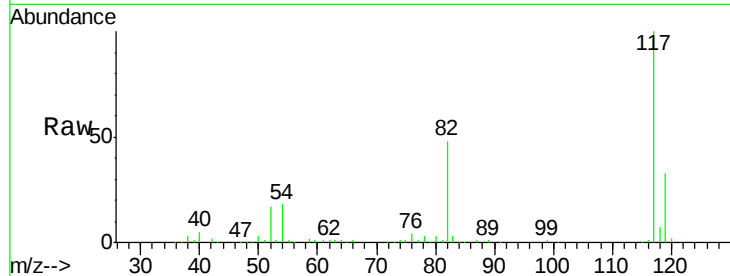




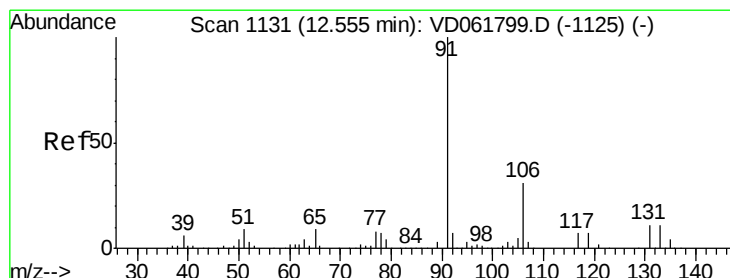
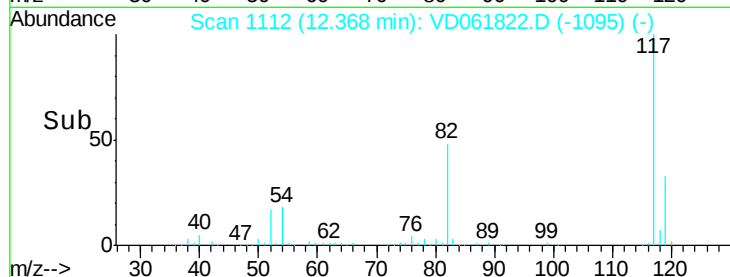
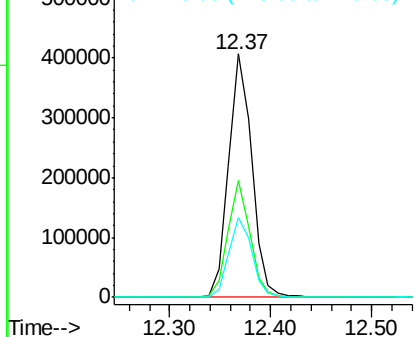
#63  
Chlorobenzene-d5  
Concen: 50.000 ug/l  
RT: 12.37 min Scan# 1112  
Delta R.T. -0.03 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-041219-B

Tot Ion:117 Resp: 650514  
Ion Ratio Lower Upper  
117 100  
82 47.8 36.2 54.2  
119 32.6 26.2 39.4

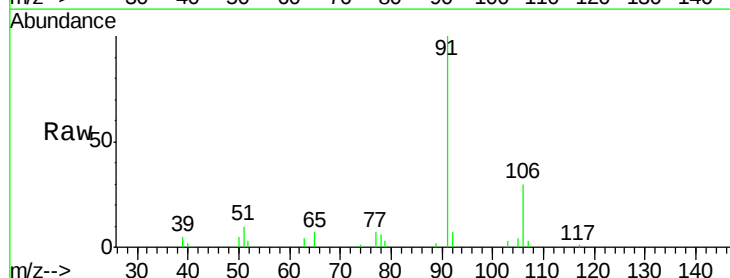


Abundance Ion 116.95 (116.65 to 117.65): V  
Ion 82.05 (81.75 to 82.75): VDC  
Ion 118.95 (118.65 to 119.65): V

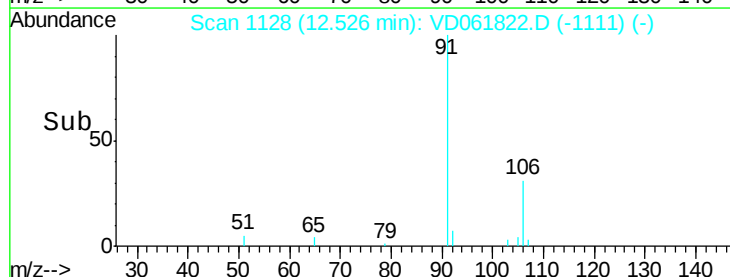
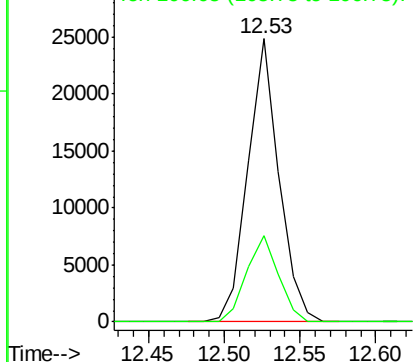


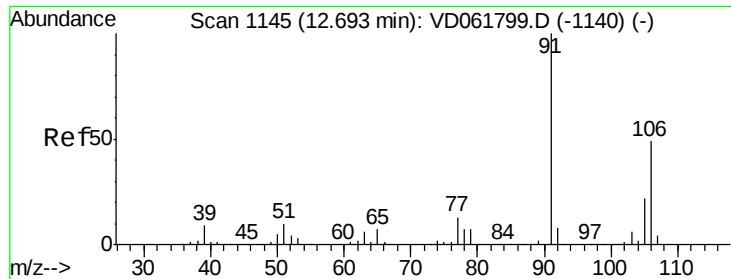
#67  
Ethyl Benzene  
Concen: 1.838 ug/l  
RT: 12.53 min Scan# 1128  
Delta R.T. -0.03 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Tgt Ion: 91 Resp: 35663  
Ion Ratio Lower Upper  
91 100  
106 30.4 24.7 37.1



Abundance Ion 91.00 (90.70 to 91.70): VDC  
Ion 106.05 (105.75 to 106.75): V

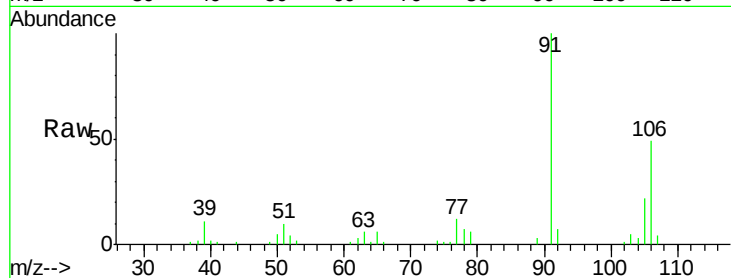




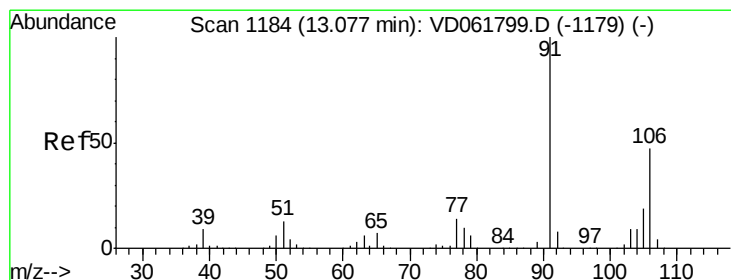
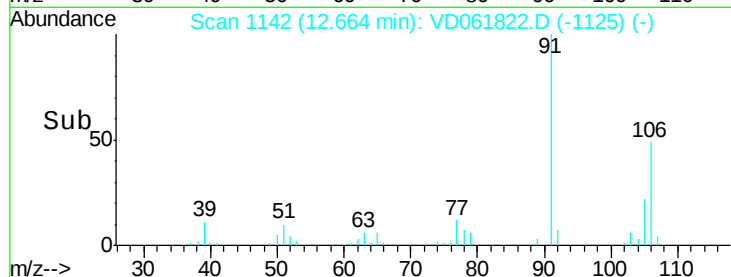
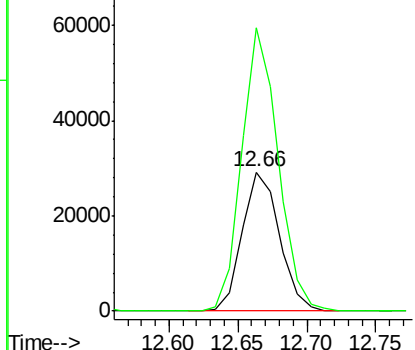
#68  
m/p-Xylenes  
Concen: 7.566 ug/l  
RT: 12.66 min Scan# 1142  
Delta R.T. -0.03 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Instrument :  
MSVOA\_D  
ClientSampleId :  
OR-02-041219-B

Tot Ion:106 Resp: 55140  
Ion Ratio Lower Upper  
106 100  
91 203.4 164.0 246.0

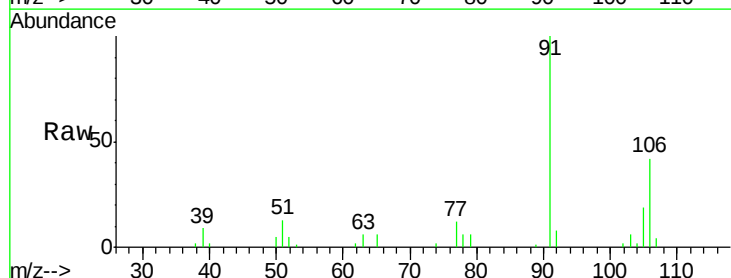


Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

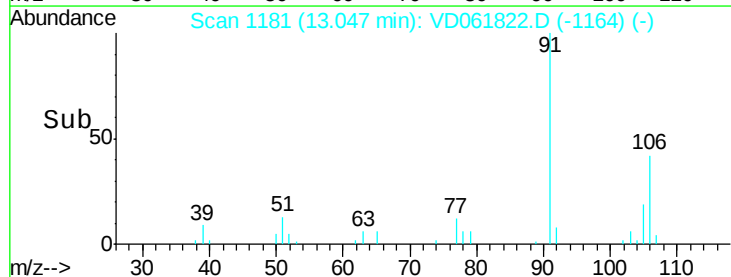
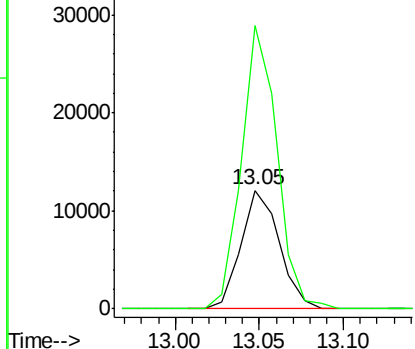


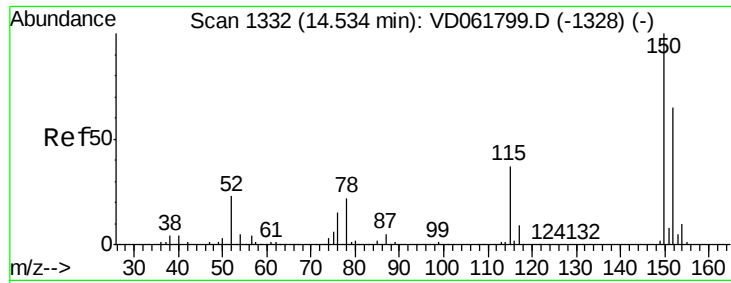
#69  
o-Xylene  
Concen: 2.794 ug/l  
RT: 13.05 min Scan# 1181  
Delta R.T. -0.03 min  
Lab File: VD061822.D  
Acq: 16 Apr 2019 20:46

Tgt Ion:106 Resp: 19136  
Ion Ratio Lower Upper  
106 100  
91 238.3 106.7 319.9



Abundance Ion 106.05 (105.75 to 106.75): V  
Ion 91.00 (90.70 to 91.70): VDC

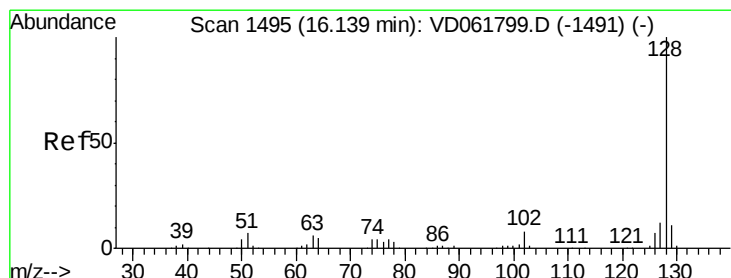
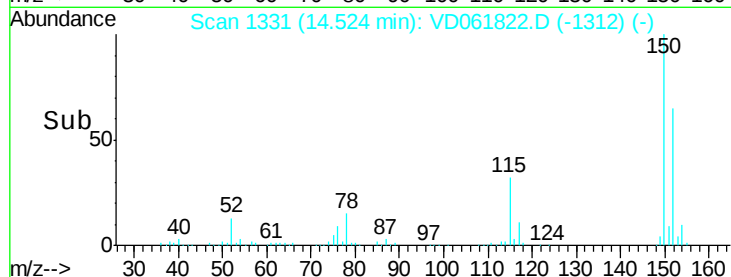
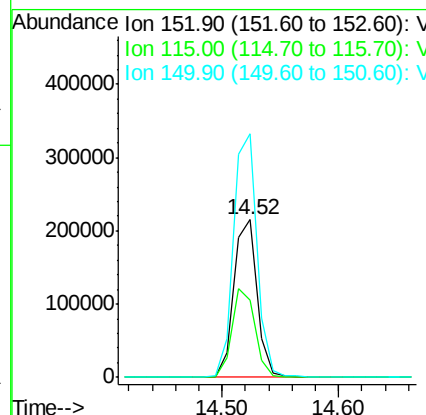
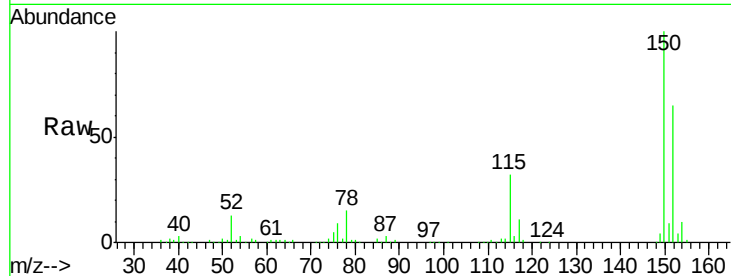




#72  
 1,4-Dichlorobenzene-d4  
 Concen: 50.000 ug/l  
 RT: 14.52 min Scan# 1331  
 Delta R.T. -0.01 min  
 Lab File: VD061822.D  
 Acq: 16 Apr 2019 20:46

Instrument :  
 MSVOA\_D  
 ClientSampleId :  
 OR-02-041219-B

Tot Ion:152 Resp: 297944  
 Ion Ratio Lower Upper  
 152 100  
 115 48.7 30.9 92.7  
 150 154.5 0.0 314.8



#95  
 Naphthalene  
 Concen: 2.990 ug/l  
 RT: 16.13 min Scan# 1494  
 Delta R.T. -0.01 min  
 Lab File: VD061822.D  
 Acq: 16 Apr 2019 20:46

Tgt Ion:128 Resp: 20201  
 Ion Ratio Lower Upper  
 128 100  
 127 10.2 9.8 14.8  
 129 10.6 8.8 13.2

